



TRANSPORTATION, INFRASTRUCTURE & OPERATIONS COMMITTEE

APRIL 20, 2022



ORDINANCE NO. 220314

Smart Sewer Program Management Services, Renewal No. 1

Authorizing a \$12,000,000.00 design professional services contract with Burns & McDonnell Engineering Company, Inc., for the Smart Sewer Program Management Services, Renewal No. 1 project; and establishing an effective date.

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SMART SEWER PROGRAM TOPIC OUTLINE

- Presented program highlights in March 31 Business Session
- FY23 Major Planned Emphasis Areas
 - Enhanced hydraulic modeling
 - Green Infrastructure
 - Adaptive Management
 - Keep Out the Rain



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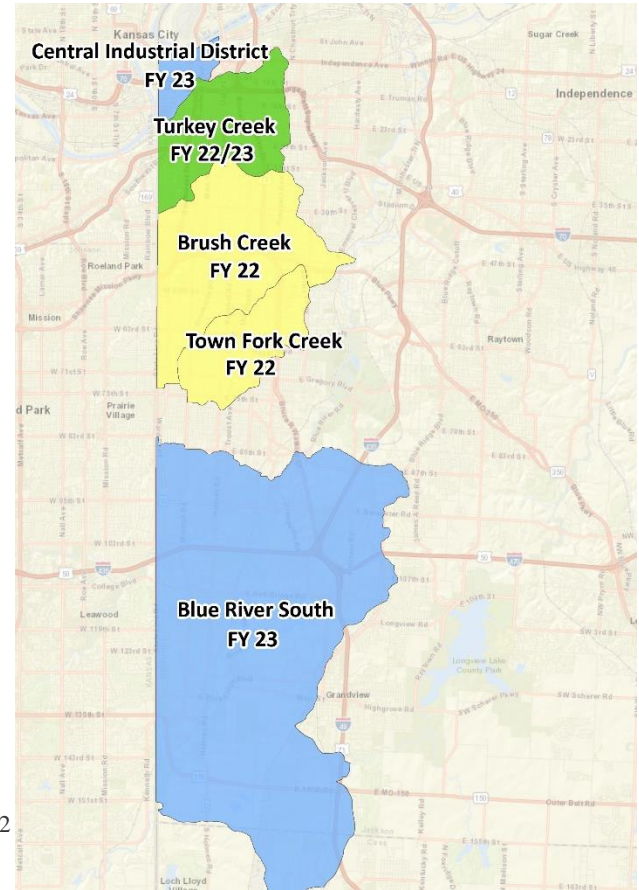
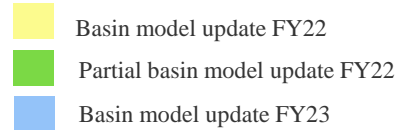
PROJECT DELIVERY QUICK FACTS



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COLLECTION SYSTEM MODEL UPDATES

- Utilization of hydraulic modeling to:
 - Demonstrate Consent Decree compliance
 - Confirm performance of completed projects
 - Validate existing system performance
 - Optimize selection and design of future projects



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FY23 PROJECTS INTEGRATING GREEN INFRASTRUCTURE (GI) CONCEPTS



Design and stakeholder engagement underway
for Mill Creek Park Green Infrastructure project

Image from [kcparks.org](https://www.kcparks.org)

- Design:
 - Daniel Morgan Boone Park GI (NTP June 2022)
 - 37th and Norton GI (NTP January 2023)
- Construction:
 - Blenheim Park GI, Part of Baseline Improvements: Town Fork Creek Sewer Separation (NTP April 2022)
 - Outfall 054 Sewer Separation (NTP October 2022)
 - 40th and Monroe Sewer Separation (NTP November 2022)
 - Mill Creek Park GI (NTP March 2023)
- Ongoing Structural Projects with Minor GI Included:
 - 31st and Broadway Sewer Separation (NTP April 2021)
 - 15th St Pump Station and Sewer Separation (NTP September 2021)

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GREEN INFRASTRUCTURE:

UPDATES TO 2018 ADAPTIVE MANAGEMENT PLAN

- **Align with Third Amended Consent Decree requirements.**
- Incorporate technical assessment of green infrastructure performance.
- Prioritize locations based on maximizing overflow reduction.
- Utilize programmatic approach for collaborative, multi-department effort.

GREEN STORMWATER INFRASTRUCTURE OPPORTUNITIES WATERSHED SUMMARIES

KANSAS CITY SMART SEWER ADAPTIVE MANAGEMENT PLAN

VERSION 1.0 (JULY 2018)

TABLE OF CONTENTS

EXECUTIVE SUMMARY - 1

WATERSHED PROCESS SUMMARY - 5

GUIDING PRINCIPLES FOR REGENERATIVE SYSTEM - 8

EXISTING CONDITIONS ANALYSIS - 20

URBAN DESIGN FRAMEWORK - 24

GSI WATERSHED PLANS - 26

TOWN FORK CREEK WATERSHED SUMMARY - 31

BRUSH CREEK WATERSHED SUMMARY - 43

GOOSENECK CREEK WATERSHED SUMMARY - 59

LOWER BLUE RIVER WATERSHED SUMMARY - 67

TURKEY CREEK WATERSHED SUMMARY - 77



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ENHANCED ADAPTIVE MANAGEMENT IMPLEMENTATION

- Process for evaluating alternative cost-effective solutions
- Optimize overflow control measure performance
- Maintain affordability of Consent Decree compliance



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KEEP OUT THE RAIN FY23 ACTIVITIES

- Full operations resuming in May
- 5,500+ parcels planned for evaluation in FY23
- Anticipate ~800 disconnections of prohibited private inflow sources



KEEP OUT *the* RAIN





THANK YOU

